What is T.P.S.?

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• Overall TPS = Is a way of $\frac{THINKING}{THINKING}$

(For Toyota Management it is the <u>THINKING</u> used to manage the building of cars that satisfy our customers needs)

◆ TPS thinking is guided by a focus on:

WASTE ELIMINATION

(Which will improve operation efficiency)

- ◆ TPS THINKING is divided into:
 - TPS Principles

Example: Do not pass the defect to the next process

TPS - Tools

Example: Andon System

◆The TPS THINKING & PRINCIPLES have been used by it's members within the Toyota company for more than 40 years. During this period, the TPS Tools [andon, kanban, etc.] have been developed & standardized as the best known method to efficiently build Toyota vehicles that satisfy our customers with high production efficiency.

The Challenge --> IMPLEMENTATION

Principle?

As defined by The American College Dictionary

- An accepted or professed rule of action or conduct
- A fundamental, primary, or general truth, in which other truths depend
- right rules of conduct
- guiding sense of the requirements and obligations of right conduct
- an originating or actuating agency or force

Principles

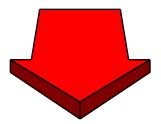
- Standard IZATION
- Do Not Pass A Defect
 - Problems passed (flow-out) are repaired by the Group or person that generated the problem or defect.
- Highlight problems
 - when and where they happened
 - in the condition in which they occurred
- the CHART or Tracking Activity
 - shows the members what is needed better than Management (Part of getting involved)
- TPS tools are designed to clearly show:
 - Normal
 - Abnormal

Principles

- Constant Small Improvements (focus on the work YOU DO)
- Need justifys the change(Equipment 10x slower but 10x \$s les)
- Management *must* change 1st
- Only the TEACHER can fail
- No *Job Descriptions*
 - the delineation of what you do is determined by training
- Single market quality
- Manage trendsSTUDY → ACTIVITIES
- Communications are the *RESPONSIBILITY* of the <u>Sender</u>

Management Must Change 1st

They must buy-in to the process



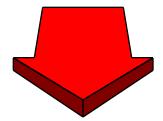
then and only then

should you take it to the people

and

there should be a Plan

on How and When to Introduce New Things



Follow-up = will determine SUCCESS

Ken Kreafle

Tools

- Just-In-Time
- Jidoka
- Kanban
- Heijunka
- Kaizen
- Standard Work
- Takt Time
- Work Sequence
- Standard In-process Stock

Jidoka and Just-In-Time are the 2 pillars in which the structure of the TPS system is supported.

Examples Of TPS Thinking:

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TPS Is Not

TPS Is

- People → To do the work as they are told
- Competition →
 Set people and groups WITHIN
 the company against each other
 to identify the strong.
- Results Focus
 The individual Boss is responsible to get results; but, the system and methods used are what the Boss wants

■ PEOPLE Are the strength of the company

(The strength of the company comes from having the PEOPLE INVOLVED!)

COOPERATION

All members and groups work in cooperation with each other to jointly accomplish the goals of the company.

COMPANY WIDE TEAMWORK

PROCEDURE FOCUS

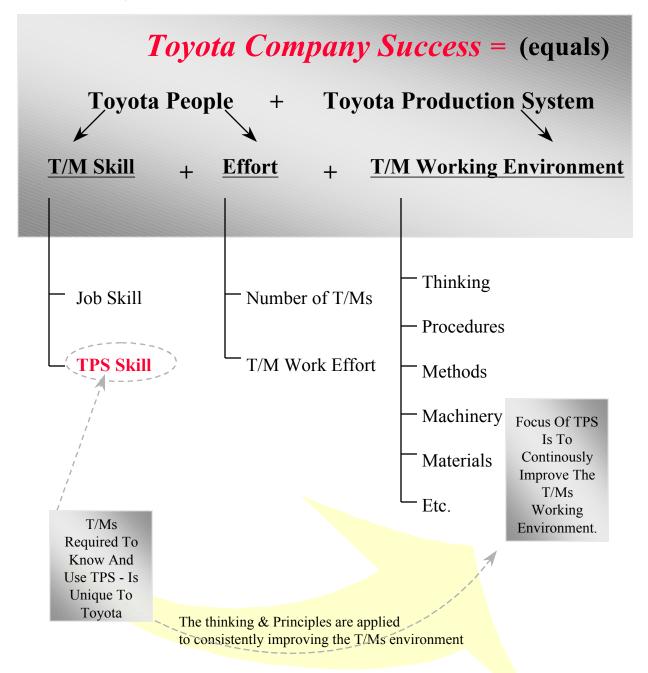
within the TOYOTA PRODUCTION SYSTEM to obtain company results. The method used to obtain results is IMPORTANT and constantly under consideration for improvement

The management team agrees to work

Elements Of Success At TMM

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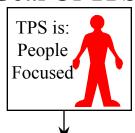
The Toyota Production System (TPS) is an <u>efficiency based system</u>. Efficiency is gained by many small improvements performed by the <u>group</u> to improve the <u>T/M's working environment</u>.



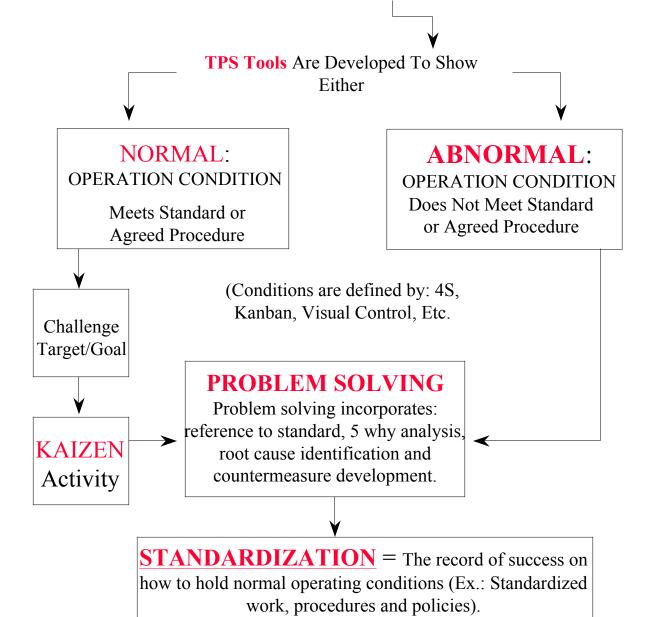
How TPS Works For People

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A Goal Of TPS is: PEOPLE - Safe and Motivated

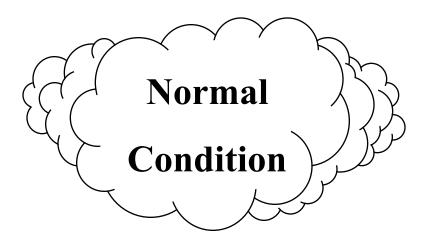


	People Needs	TPS
1	Know what is expected of them	Defines Normal vs Abnormal Operation Conditions
2	Able to influence and correct problems	Problem Solving Activities
3	Some method to keep problems from returning	Countermeasures and Standardization

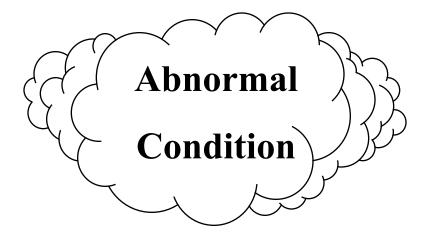


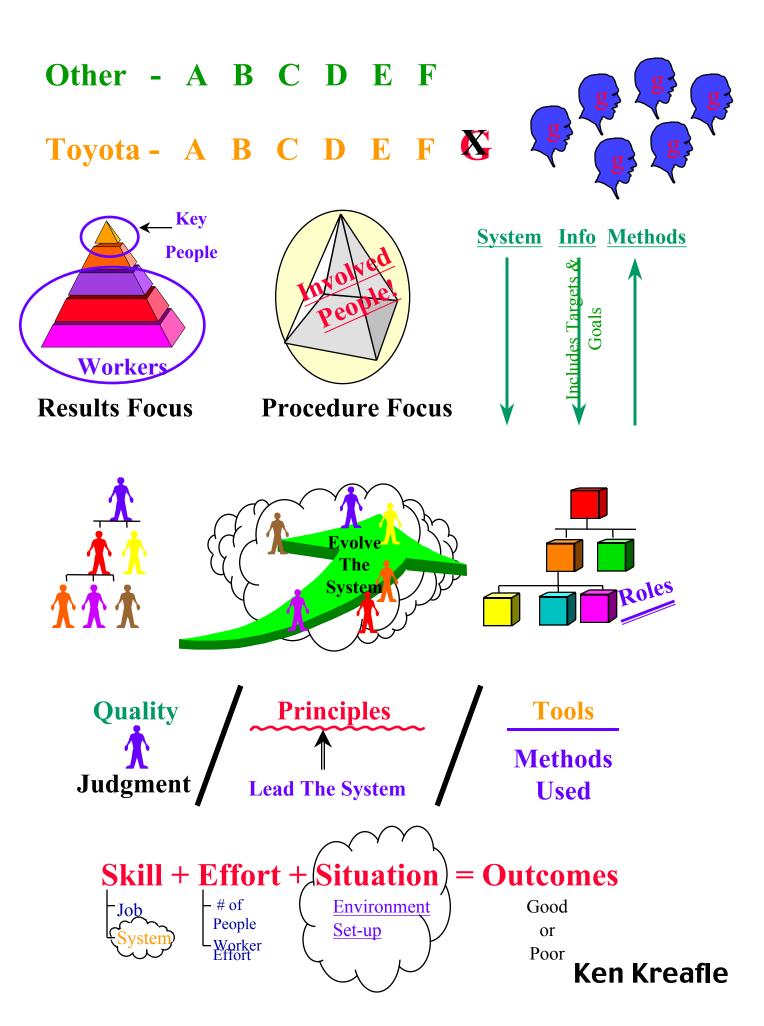
T.P.S. Is A Way Of Thinking!

The Thinking points out what is a....



and what is an





Examples Of TPS Thinking:

TPS Is Not

>

TPS Is

- Revolutionary Change
- Quick fixes by decree of Management

- Self-directed Teams
- "In the Boss's head" for the Employee's to extract
- 5 **Who** analysis to root blame

- Evolutionary change Involved T/Ms in method development
- No quick fixes exist to the Real root cause (Temporary controls are okay)
- Involved T/M's in method development
- On-paper -- Approved taught to employee's by Mgmt
- 5 Why analysis to root cause

Can you see more capabilities, capacity, etc. in the Company's *People* then is actually being utilized?

Does anyone not see more capabilities / capacity in their Company's <u>People</u> then is actually <u>being used</u>?

True Leadership

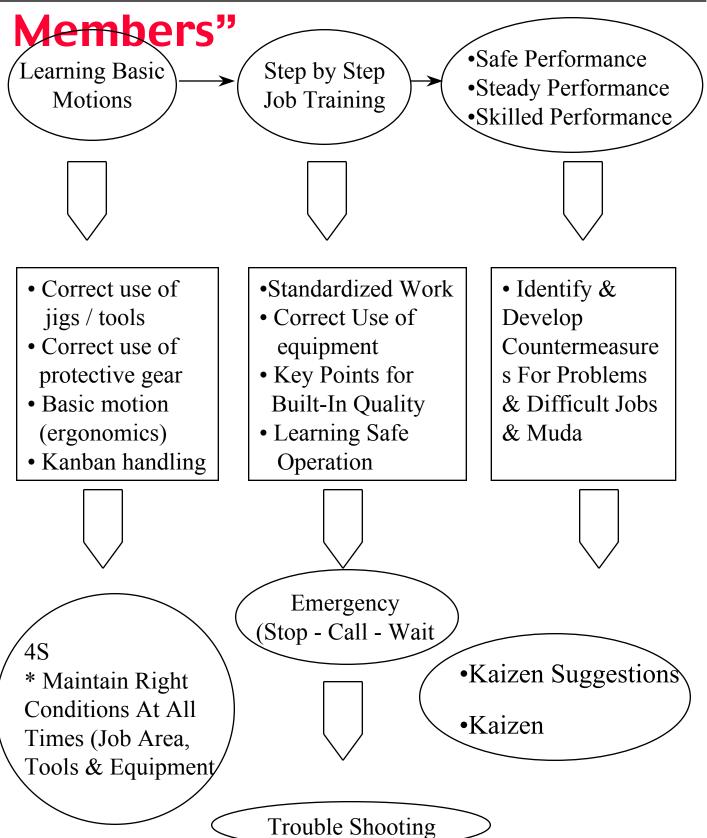
Is what is known right?

People have a deep inner sense of what is correct...the TRUE LEADER
BRINGS IT OUT

The people's energy will rally to follow!

Ken Kreafle

"What Is Expected Of Team



Does anyone not see more capabilities / capacity in their Company's *People* then is actually *being used?*